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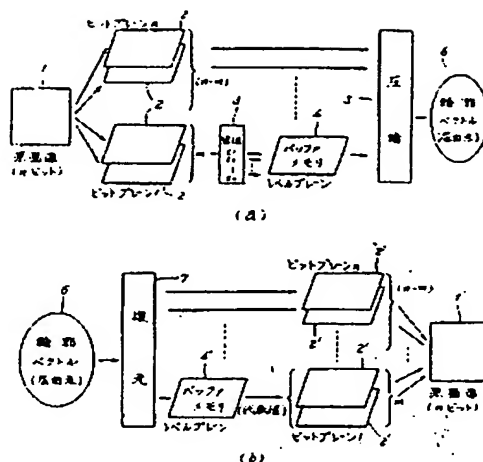
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TITLE : COMPRESSING AND RESTORATION METHOD FOR MULTILEVEL IMAGE INFORMATION



ABSTRACT : PURPOSE: To obtain a high compression ratio and to facilitate the processings of compression and restoration by dividing (n)-sheets of bit planes of multilevel image information into (m)-sheets of them on the low brightness level-side and (n-m)-sheets of them on the high brightness level-side and then compressing.

CONSTITUTION: The multilevel image constituted of (n)-bits is divided into (n)- sheets of bit planes (of binary image). And for the (m)-sheets of the bit planes on the low brightness level-side, optional pieces of level planes are generated. The vectorization of contour (extraction of curve point) is executed in such a manner that the level-plane shape can be completely restored. Also, for the (n-m)-sheets of bit planes, the vectorization of contour is executed in such a manner that the bit-plane shape can be completely restored. In the restoring, the bit planes are separately generated for the high-level-side and the low-level-side to finally synthesize (n)-sheets of bit planes. As a result, the original multilevel image is restored maximally faithfully to an original image.

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